

Day - 1

- **Introduction to Openstack**
 - Introduction and Welcome
 - Next Gen OpenStack Data Centers
 - Understand the components that make up the cloud
- **Architecture components of OpenStack**
 - What OpenStack is not? (The History)
 - Architecture Workflow
 - Nova - Compute
 - Swift - Storage

Day - 2

- **OpenStack Demonstrations**
 - OpenStack Hypervisors
 - Choosing your Distribution platform
 - Creating your Own OpenStack with DevStack
- **Dashboard**
 - Verify operation of the Dashboard
 - Manage/Create projects, users, and roles
 - Manage Keystone catalogue services and endpoints
 - Create roles and rules for the environment
 - Verify operation of the Identity service
 - Live Lab: Creating Projects, Users, and Roles

Day - 3

- **Dashboard**
 - Verify operation of the Dashboard
- **Compute**
 - Nova Compute Components and OpenStack Terms
 - Verify operation of Compute services
 - Manage Nova user keypairs
 - Manage Flavors
 - Manage quotas
 - Manage project security group rules
 - Launch a new Instance
 - Assign security group to Instance
 - Configure an Instance with a Floating IP address
 - Access an Instance using a keypair
 - Shutdown an Instance
 - Terminate Instance
 - Manage instance snapshots
 - Live Lab: Managing Flavors and Quotas
 - Live Lab: Launching Instances from the CLI
 - Live Lab: Launching Instances from Horizon
 - Live Lab: Configure Access and Security for Instances

Day - 4

- **Block Storage**

- Block Storage - Cinder Overview
- Create volume group for block storage
- Manage volume
- Create a new Block Storage Volume and mount it to a Nova Instance
- Manage quotas
- Snapshot volume
- Manage volumes backups
- Manage volumes encryption
- Live Lab: Create a new Block Storage Volume and mount it to a Nova Instance
- Live Lab: Create a Volume Snapshot and Backup
- Live Lab: Create an Encrypted Volume

- **Object Storage**

- Swift - Object Storage Overview
- The Ring
- Account, Proxy, Object, and Container Servers
- Replication
- Manage access to object storage
- Manage expiring objects
- Live Lab: Set Expire Times on Objects

Day - 5

- **Image Management**

- Campaign objectives
- LinkedIn campaign structure
- Conversion tracking
- Remarketing and sequenced messaging
- Lead gen forms
- A/B testing

- **Updating Your Configuration with More Resources**

- Linux Networking - Linux Bridges
- Linux Networking - Network Managers with Nova-Network
- Linux Networking - Network Traffic Flow VLAN and Flat Networks
- Linux Networking - Floating IP Address
- Neutron
- Neutron - Linux Bridges
- Neutron - Open vSwitch
- Neutron - ML2 Plugin
- Neutron - Agents
- Verify operation of network service

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- Create project networks
- Create project routers
- External Networks
- Manage project security group rules
- Manage quotas
- Live Lab: Create a New Subnet in Existing Tenant Network

- **Telemetry**

- Telemetry - Ceilometer Overview
- Telemetry - Ceilometer Pipelines, Meters, and Alarms
- Verify operation of Telemetry
- Manage Telemetry meters and alarms

- **Heat/Orchestration**

- Orchestration - Heat Overview
- Heat Architecture
- Heat Templates
- Verify operation of Heat/Orchestration
- Use Heat/Orchestration CLI and Dashboard
- Obtain detailed information about a stack